

Title (en)
LIGHT-BLOCKING ARTICLES WITH SPACER FUNCTIONAL COMPOSITION

Title (de)
LICHTBLOCKIERENDE GEGENSTÄNDE MIT SPACER-FUNKTIONSZUSAMMENSETZUNG

Title (fr)
ARTICLES BLOQUANT LA LUMIÈRE AVEC UNE COMPOSITION FONCTIONNELLE D'ENTRETOISE

Publication
EP 3887439 B1 20240131 (EN)

Application
EP 19821334 A 20191115

Priority
• US 201816203737 A 20181129
• US 2019061590 W 20191115

Abstract (en)
[origin: US2020172690A1] A foamed, opacifying element useful as a light-blocking article has a substrate; an opacifying layer disposed on the substrate, and a functional composition disposed over the opacifying layer. The functional composition comprises: (i) glass particles such as hollow glass particles. The presence of the glass particles provides additional heat absorption for the foamed, opacifying elements that can be formed into light-blocking materials.

IPC 8 full level
C08J 9/00 (2006.01); **C08J 9/30** (2006.01); **C08J 9/32** (2006.01); **D06N 3/00** (2006.01); **D06N 3/18** (2006.01); **D06P 5/28** (2006.01)

CPC (source: EP US)
C08J 9/0061 (2013.01 - US); **C08J 9/0066** (2013.01 - EP); **C08J 9/283** (2013.01 - US); **C08J 9/30** (2013.01 - EP); **C08J 9/32** (2013.01 - EP); **C08L 33/08** (2013.01 - US); **D06N 3/0063** (2013.01 - EP); **D06N 3/0068** (2013.01 - EP); **D06N 3/183** (2013.01 - EP); **D06P 5/004** (2013.01 - EP); **C08J 2201/026** (2013.01 - EP); **C08J 2301/28** (2013.01 - US); **C08J 2433/08** (2013.01 - US); **C08J 2467/04** (2013.01 - US); **C08J 2471/02** (2013.01 - US); **D06N 2209/0853** (2013.01 - EP); **D06N 2211/125** (2013.01 - EP)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 10920032 B2 20210216; **US 2020172690 A1 20200604**; CN 113056511 A 20210629; EP 3887439 A1 20211006; EP 3887439 B1 20240131; WO 2020112380 A1 20200604

DOCDB simple family (application)
US 201816203737 A 20181129; CN 201980078766 A 20191115; EP 19821334 A 20191115; US 2019061590 W 20191115